



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Rosalie A. Centeno
Rosalie A. Centeno Secretary

In the Application of Jan Boris Rudkowski

Ser.No.: 10/567,834

Filed: February 8, 2006

For: DEVICE FOR THE UV TREATMENT OF FLOWING FLUIDS

Customer Number: 30996

Commissioner of Patents

Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR § 1.56, Applicant wishes to call the attention of the Examiner to the following references:

- 1) US 4,471,225
- 2) US 4,304,996
- 3) WO 02/12127
- 4) JP 2000070928
- 5) EP 1 296 541
- 6) XP-000722146

References 1 – 4 are all in the English language and therefore need no further

discussion as to their relevance. In accordance with United States Patent and Trademark practice, it is no longer necessary to enclose copies of U.S. Patents.

Reference 5 discloses an arrangement that has a mains rectifier with an intermediate circuit capacitor in parallel with the d.c. output, a power unit with a static inverter operated at a first frequency and a further second static inverter per load, each with 2 power switches operated alternately with a second defined frequency. The loads are connected between the junctions of the power switches in the first and associated static inverters. Independent claims are also included for the following: an arrangement for outputting ultraviolet rays, especially for polymerizing ink in a printer, and a method of operating an inventive circuit arrangement.

Reference 6 discloses that water that originally does not fulfill the microbiological requirements of drinking-water regulations can be disinfected by means of UV irradiation. That method is attractive for no chemicals have to be added to the water. Hence, the odor or the taste of the water is not altered. The UV irradiation destroys the DNA double helix of e.g. bacteria so that the cells lose their ability to multiply. In order to ensure the effectiveness of the UV treatment, each element of volume water that passes through the disinfection reactor has to be exposed to a certain intensity of UV irradiation in a defined wavelength range. The intensity and the wave length range, or in other words, the disinfection potential of the UV disinfection reactor, are monitored by means of at least one control unit comprising an UV sensor and an amplifier. The UV sensor consists of a UV photo diode. When UV radiation hits the photo diode, it generates an electric current that is amplified and led to a corresponding indicating means. The photo diode and the subsequently added amplifier are embedded in a tube of stainless steel. In order to protect the diode, the front of the tube that faces the water is sealed with a thin, UV penetrable pain of quartz glass. The entire unit is

attached to the UV disinfection reactor in such a manner that it allows the monitoring of the UV irradiation.

Copies of the listed documents, with the exception of any US Patent references, are submitted herewith along with the form PTO-1449.

It is respectfully requested that any fees required and not enclosed herewith or any shortages in any fees be charged to Deposit Account 02-1653.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted,



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Enclosures



INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Complete if Known	
CUSTOMER NUMBER: 30996		Application Number	10/567,834
		Filing Date	Feb. 8, 2006
		First Named Inventor	Jan Boris Rudkowski
		Group Art Unit	
		Examiner Name	
		Attorney Docket No.	LE/se 030101us

U. S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Patent Number Pub. Number	Issue Date Pub. Date	Patentee	Class	Subclass	Filing Date
	1	4,471,225	9/11/1984	Hillman			2/28/1983
	2	4,304,996	12/8/1981	Blades			4/9/1980

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
	3	WO 02/12127	14 Feb 2002	WIPO			X
	4	JP 2000070928	07 Mar 2000	Japan			X
	5	EP 1 296 541	26 Mar 2003	Europe			X

OTHER PRIOR ART B NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	
	6	XP-000722146, Article, "Eine Uüberwachungseinheit fur die Strahlungsmessung in UV-Desinfektionsanlagen" (Control Unit for Monitoring UV Irradiation in UV disinfection reactors)

Examiner		Date	
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3/28/2006